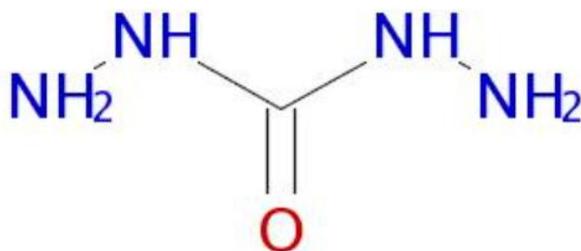


Carbohydrazide



CAS No.	497-18-7	EINECS No.	207-837-2
Molecular Formula	CO(NHNH ₂) ₂	Molecular Weight	90.09

Structural Formula



Product Features

Carbohydrazide is white crystal powder. Carbohydrazide is very soluble in water and soluble in alcohol. Carbohydrazide decomposes on heating or exposure to uv to form ammonia, hydrogen, and nitrogen, which may be explosive with a blue flame when catalyzed by metal oxides and some metals such as platinum or raney nickel. Carbohydrazide has dibasic and very reactive properties.

Technical Specification

Parameter	Standard
Appearance	White crystal powder
Purity, %	98.0min
Free hydrazine, ppm	500.0max
Moisture, %	0.2max
pH(12% water solution)	7.2-9.7

Applications & Usage

Carbohydrazide is used as a component in jet fuels because it produce a large amount of heat when burned. Carbohydrazide is used as rocket fuel. Carbohydrazide is used as an oxygen scavenger for water boiler feed and heating systems to prevent corrosion damage. Carbohydrazide is used as a reducing agent for the recovery of precious metals. Carbohydrazide is used as a polymerization catalyst and a chain extender in urethane coatings. Carbohydrazide is used as an auxiliary in photographic industry to prevent discolouration. Carbohydrazide is used as an intermediate for pharmaceuticals, stabilizers and water treatment chemicals.

Carbohydrazide and its derivatives are versatile intermediates. They have active applications in organic synthesis for agrochemicals, pharmaceuticals, photographic, heat stabilizers, polymerization catalysts, flame- retardants, blowing agents for plastics, explosives, and dyes. Recently, hydrazine is applied to lcd (liquid crystal displays) as the fuel to make faster thin-film transistors.

When used as de-oxidant in boiler, put this product into water or use its water solution, the dosage of 0.5mol or above of carbohydrazide for 1mol O₂ is preferred. The suitable temperature range is 87.8-176.7°C. The reaction for carbohydrazide with O₂ is $CON_4H_6 + 2O_2 = 2N_2 + 3H_2O + CO_2$.

Package & Storage

25kg Bag	25KG Fiber drum
	
Storage for 12 months in shady room and dry place.	

Hazard & Safety Precaution

Hazard Information	Safety Precaution
 ENVIRONMENTALLY HAZARDOUS, Class 9, UN 3077	
Once contacted with eye and skin, flush with plenty of clean water.	

Alternative Name / Synonyms

- CDH
- 1,3 Diaminourea
- Carbonyl dihydrazine